CLAIMS:

1. A lubricant composition useful for improving electrical properties in lubricant systems comprising a GTL base oil and an effective amount of a non-metallic antistatic additive, wherein said lubricant composition has an electrical conductivity of at least about 50pS/m at 25°C and a dielectric strength of at least 300 V/mil.

2. The lubricant composition of claim 1, wherein said non-metallic antistatic additive is an alkyl aryl sulfonic acid.

3. The lubricant composition of claim 2, wherein said alkyl aryl sulfonic acid is a dinonyl napthyl sulfonic acid.

4. The lubricant composition of any of claims 1 to 3, wherein said non-metallic antistatic additive is present in amounts ranging from about 5 µl/L to about 50 µl/L.

5. The lubricant composition of any of claims 1 to 4, wherein said GTL base oil is present in an amount ranging from about 50 to about 99 wt. %, based on total weight of said composition.

6. A method for improving electrical properties of a lubricant composition comprising adding a non-metallic antistatic additive to a GTL base oil, wherein said lubricant composition has an electrical conductivity of at least about 50pS/m at 25°C and a dielectric strength of at least 300 V/mil; and, mixing said additive and said base oil to make up a substantially homogeneous mixture.

CLAIMS

1. An industrial oil composition comprising: a base oil consisting essentially of a GTL oil; and a non-metallic antistatic additive to provide said lubricant composition with an electrical conductivity of at least about 50pS/m at 25°C and a dielectric strength of at least 300V/ml whereby said industrial oil composition has improved electrical properties as evidenced by said dielecric strength when compared to industrial oil compositions comprising a Group II or Group III base oil containing the same antistatic additive in the same amount of the claimed composition,

wherein said base oil is about 99 wt. % of the lubricant composition,

wherein the non-metallic antistatic additive is dinonyl naphthyl sulfonic acid, and

wherein said non-metallic antistatic additive is present in amount of about 6 μl/L and with the proviso that the composition is essentially free of dispersants.

2. A method for improving the electrical properties of an industrial oil composition comprising a base oil, said method comprising adding a non-metallic antistatic additive to an industrial oil composition comprising a base oil consisting essentially of a GTL base oil and mixing the additive and GTL base oil to make a substantially homogeneous mixture, said additive being added to said composition to provide said composition with an electrical conductivity of at least about 50pS/m at 25°C whereby the dielectric strength of the composition is at least 300V/ml which is greater than the dielectric strength of compositions prepared by the same method but with different base oils,

wherein said base oil is about 99 wt. % of the composition,

wherein the non-metallic antistatic additive is dinonyl naphthyl sulfonic acid, and

wherein said non-metallic antistatic additive is present in amount of about 6 μl/L and with the proviso that the composition is essentially free of dispersants.

3. A method for reducing formation of sludge and varnish in industrial oil lubricant systems comprising using the composition of claim 1.